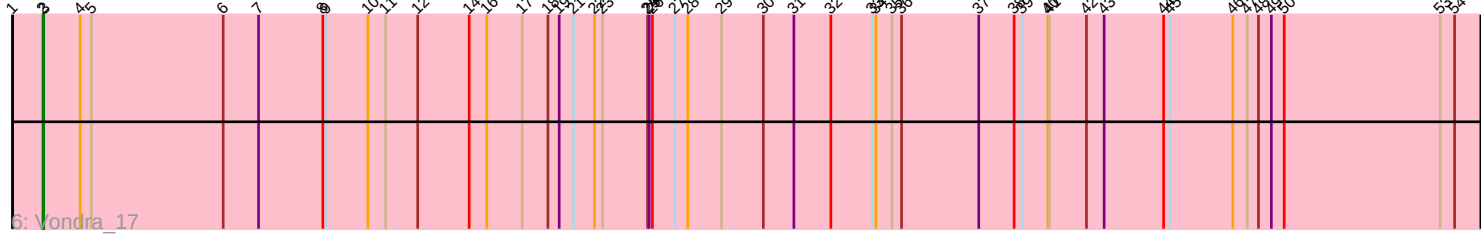
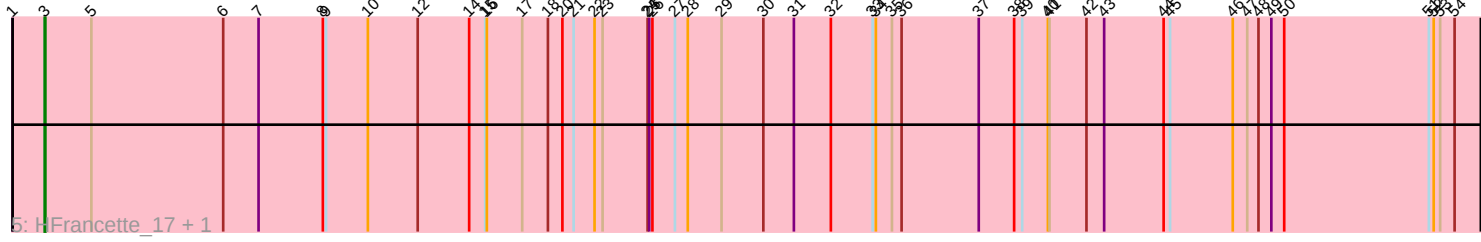
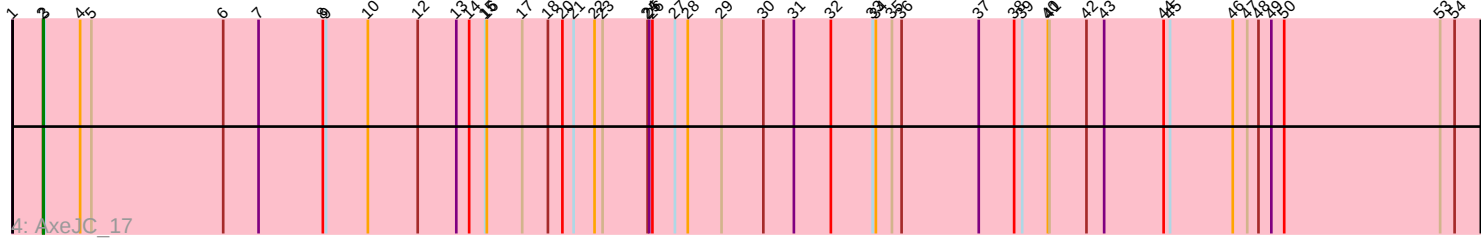
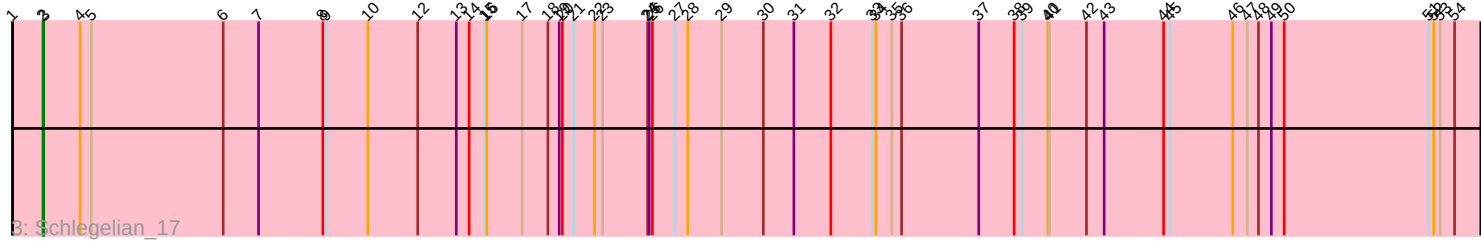
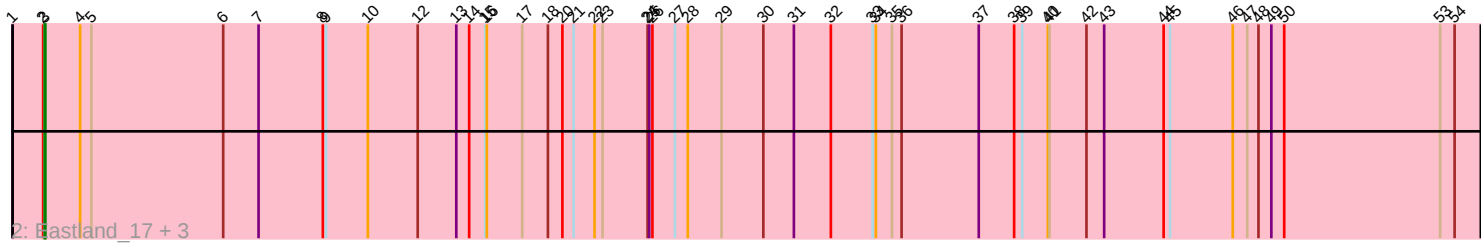
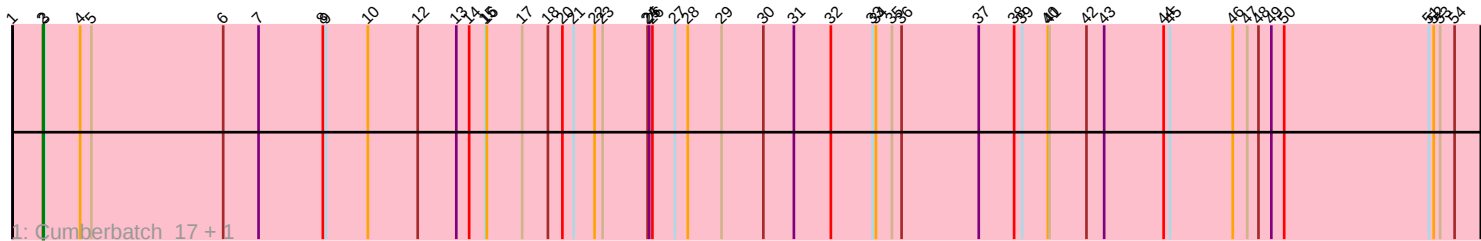


Zoomed Pham 278814



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 278814 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278814 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Cumberbatch_17, ArizonaGT_17
- Track 2 : Eastland_17, Piccadilly_17, FrumpyGal_17, Eklok_17
- Track 3 : Schlegelian_17
- Track 4 : AxeJC_17
- Track 5 : HFrancette_17, Ignacio_17
- Track 6 : Vondra_17

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 3, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Eastland_17, Eklok_17, FrumpyGal_17, HFrancette_17, Ignacio_17, Piccadilly_17,

Genes that have the "Most Annotated" start but do not call it:

- ArizonaGT_17, AxeJC_17, Cumberbatch_17, Schlegelian_17, Vondra_17,

Genes that do not have the "Most Annotated" start:

•

Summary by start number:

Start 2:

- Found in 9 of 11 (81.8%) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 55.6% of time when present
- Phage (with cluster) where this start called: ArizonaGT_17 (BP), AxeJC_17 (BP), Cumberbatch_17 (BP), Schlegelian_17 (BP), Vondra_17 (BP),

Start 3:

- Found in 11 of 11 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 54.5% of time when present

- Phage (with cluster) where this start called: Eastland_17 (BP), Eklok_17 (BP), FrumpyGal_17 (BP), HFrancette_17 (BP), Ignacio_17 (BP), Piccadilly_17 (BP),

Summary by clusters:

There is one cluster represented in this pham: BP

Info for manual annotations of cluster BP:

- Start number 2 was manually annotated 5 times for cluster BP.
- Start number 3 was manually annotated 6 times for cluster BP.

Gene Information:

Gene: ArizonaGT_17 Start: 9962, Stop: 13312, Start Num: 2

Candidate Starts for ArizonaGT_17:

(1, 9905), (Start: 2 @9962 has 5 MA's), (Start: 3 @9965 has 6 MA's), (4, 10031), (5, 10052), (6, 10298), (7, 10364), (8, 10484), (9, 10490), (10, 10568), (12, 10661), (13, 10733), (14, 10757), (15, 10787), (16, 10790), (17, 10856), (18, 10904), (20, 10931), (21, 10952), (22, 10991), (23, 11006), (24, 11090), (25, 11093), (26, 11099), (27, 11141), (28, 11165), (29, 11228), (30, 11306), (31, 11363), (32, 11432), (33, 11510), (34, 11516), (35, 11546), (36, 11564), (37, 11708), (38, 11774), (39, 11789), (40, 11837), (41, 11840), (42, 11909), (43, 11942), (44, 12053), (45, 12065), (46, 12182), (47, 12209), (48, 12230), (49, 12254), (50, 12278), (51, 12548), (52, 12557), (53, 12569), (54, 12596), (55, 12647), (57, 12869), (58, 12905), (59, 12947), (60, 12968), (61, 13016), (62, 13019), (63, 13055), (64, 13097), (65, 13109), (66, 13124), (67, 13145), (68, 13196), (69, 13268),

Gene: AxeJC_17 Start: 9978, Stop: 13328, Start Num: 2

Candidate Starts for AxeJC_17:

(1, 9921), (Start: 2 @9978 has 5 MA's), (Start: 3 @9981 has 6 MA's), (4, 10047), (5, 10068), (6, 10314), (7, 10380), (8, 10500), (9, 10506), (10, 10584), (12, 10677), (13, 10749), (14, 10773), (15, 10803), (16, 10806), (17, 10872), (18, 10920), (20, 10947), (21, 10968), (22, 11007), (23, 11022), (24, 11106), (25, 11109), (26, 11115), (27, 11157), (28, 11181), (29, 11244), (30, 11322), (31, 11379), (32, 11448), (33, 11526), (34, 11532), (35, 11562), (36, 11580), (37, 11724), (38, 11790), (39, 11805), (40, 11853), (41, 11856), (42, 11925), (43, 11958), (44, 12069), (45, 12081), (46, 12198), (47, 12225), (48, 12246), (49, 12270), (50, 12294), (53, 12585), (54, 12612), (55, 12663), (56, 12717), (57, 12885), (58, 12921), (59, 12963), (60, 12984), (61, 13032), (62, 13035), (63, 13071), (64, 13113), (65, 13125), (66, 13140), (67, 13161), (68, 13212), (69, 13284),

Gene: Cumberbatch_17 Start: 9962, Stop: 13312, Start Num: 2

Candidate Starts for Cumberbatch_17:

(1, 9905), (Start: 2 @9962 has 5 MA's), (Start: 3 @9965 has 6 MA's), (4, 10031), (5, 10052), (6, 10298), (7, 10364), (8, 10484), (9, 10490), (10, 10568), (12, 10661), (13, 10733), (14, 10757), (15, 10787), (16, 10790), (17, 10856), (18, 10904), (20, 10931), (21, 10952), (22, 10991), (23, 11006), (24, 11090), (25, 11093), (26, 11099), (27, 11141), (28, 11165), (29, 11228), (30, 11306), (31, 11363), (32, 11432), (33, 11510), (34, 11516), (35, 11546), (36, 11564), (37, 11708), (38, 11774), (39, 11789), (40, 11837), (41, 11840), (42, 11909), (43, 11942), (44, 12053), (45, 12065), (46, 12182), (47, 12209), (48, 12230), (49, 12254), (50, 12278), (51, 12548), (52, 12557), (53, 12569), (54, 12596), (55, 12647), (57, 12869), (58, 12905), (59, 12947), (60, 12968), (61, 13016), (62, 13019), (63, 13055), (64, 13097), (65, 13109), (66, 13124), (67, 13145), (68, 13196), (69, 13268),

Gene: Eastland_17 Start: 9966, Stop: 13313, Start Num: 3

Candidate Starts for Eastland_17:

(1, 9906), (Start: 2 @9963 has 5 MA's), (Start: 3 @9966 has 6 MA's), (4, 10032), (5, 10053), (6, 10299), (7, 10365), (8, 10485), (9, 10491), (10, 10569), (12, 10662), (13, 10734), (14, 10758), (15, 10788), (16, 10791), (17, 10857), (18, 10905), (20, 10932), (21, 10953), (22, 10992), (23, 11007), (24, 11091), (25, 11094), (26, 11100), (27, 11142), (28, 11166), (29, 11229), (30, 11307), (31, 11364), (32, 11433), (33, 11511), (34, 11517), (35, 11547), (36, 11565), (37, 11709), (38, 11775), (39, 11790), (40, 11838), (41, 11841), (42, 11910), (43, 11943), (44, 12054), (45, 12066), (46, 12183), (47, 12210), (48, 12231), (49, 12255), (50, 12279), (53, 12570), (54, 12597), (55, 12648), (56, 12702), (57, 12870), (58, 12906), (59, 12948), (60, 12969), (61, 13017), (62, 13020), (63, 13056), (64, 13098), (65, 13110), (66, 13125), (67, 13146), (68, 13197), (69, 13269),

Gene: Eklok_17 Start: 9981, Stop: 13328, Start Num: 3

Candidate Starts for Eklok_17:

(1, 9921), (Start: 2 @9978 has 5 MA's), (Start: 3 @9981 has 6 MA's), (4, 10047), (5, 10068), (6, 10314), (7, 10380), (8, 10500), (9, 10506), (10, 10584), (12, 10677), (13, 10749), (14, 10773), (15, 10803), (16, 10806), (17, 10872), (18, 10920), (20, 10947), (21, 10968), (22, 11007), (23, 11022), (24, 11106), (25, 11109), (26, 11115), (27, 11157), (28, 11181), (29, 11244), (30, 11322), (31, 11379), (32, 11448), (33, 11526), (34, 11532), (35, 11562), (36, 11580), (37, 11724), (38, 11790), (39, 11805), (40, 11853), (41, 11856), (42, 11925), (43, 11958), (44, 12069), (45, 12081), (46, 12198), (47, 12225), (48, 12246), (49, 12270), (50, 12294), (53, 12585), (54, 12612), (55, 12663), (56, 12717), (57, 12885), (58, 12921), (59, 12963), (60, 12984), (61, 13032), (62, 13035), (63, 13071), (64, 13113), (65, 13125), (66, 13140), (67, 13161), (68, 13212), (69, 13284),

Gene: FrumpyGal_17 Start: 9966, Stop: 13313, Start Num: 3

Candidate Starts for FrumpyGal_17:

(1, 9906), (Start: 2 @9963 has 5 MA's), (Start: 3 @9966 has 6 MA's), (4, 10032), (5, 10053), (6, 10299), (7, 10365), (8, 10485), (9, 10491), (10, 10569), (12, 10662), (13, 10734), (14, 10758), (15, 10788), (16, 10791), (17, 10857), (18, 10905), (20, 10932), (21, 10953), (22, 10992), (23, 11007), (24, 11091), (25, 11094), (26, 11100), (27, 11142), (28, 11166), (29, 11229), (30, 11307), (31, 11364), (32, 11433), (33, 11511), (34, 11517), (35, 11547), (36, 11565), (37, 11709), (38, 11775), (39, 11790), (40, 11838), (41, 11841), (42, 11910), (43, 11943), (44, 12054), (45, 12066), (46, 12183), (47, 12210), (48, 12231), (49, 12255), (50, 12279), (53, 12570), (54, 12597), (55, 12648), (56, 12702), (57, 12870), (58, 12906), (59, 12948), (60, 12969), (61, 13017), (62, 13020), (63, 13056), (64, 13098), (65, 13110), (66, 13125), (67, 13146), (68, 13197), (69, 13269),

Gene: HFrancette_17 Start: 9980, Stop: 13327, Start Num: 3

Candidate Starts for HFrancette_17:

(1, 9920), (Start: 3 @9980 has 6 MA's), (5, 10067), (6, 10313), (7, 10379), (8, 10499), (9, 10505), (10, 10583), (12, 10676), (14, 10772), (15, 10802), (16, 10805), (17, 10871), (18, 10919), (20, 10946), (21, 10967), (22, 11006), (23, 11021), (24, 11105), (25, 11108), (26, 11114), (27, 11156), (28, 11180), (29, 11243), (30, 11321), (31, 11378), (32, 11447), (33, 11525), (34, 11531), (35, 11561), (36, 11579), (37, 11723), (38, 11789), (39, 11804), (40, 11852), (41, 11855), (42, 11924), (43, 11957), (44, 12068), (45, 12080), (46, 12197), (47, 12224), (48, 12245), (49, 12269), (50, 12293), (51, 12563), (52, 12572), (53, 12584), (54, 12611), (55, 12662), (57, 12884), (59, 12962), (60, 12983), (61, 13031), (62, 13034), (63, 13070), (64, 13112), (65, 13124), (66, 13139), (67, 13160), (68, 13211), (69, 13283), (70, 13298),

Gene: Ignacio_17 Start: 9980, Stop: 13327, Start Num: 3

Candidate Starts for Ignacio_17:

(1, 9920), (Start: 3 @9980 has 6 MA's), (5, 10067), (6, 10313), (7, 10379), (8, 10499), (9, 10505), (10, 10583), (12, 10676), (14, 10772), (15, 10802), (16, 10805), (17, 10871), (18, 10919), (20, 10946), (21, 10967), (22, 11006), (23, 11021), (24, 11105), (25, 11108), (26, 11114), (27, 11156), (28, 11180), (29, 11243), (30, 11321), (31, 11378), (32, 11447), (33, 11525), (34, 11531), (35, 11561), (36, 11579), (37, 11723), (38, 11789), (39, 11804), (40, 11852), (41, 11855), (42, 11924), (43, 11957), (44, 12068), (45, 12080), (46, 12197), (47, 12224), (48, 12245), (49, 12269), (50, 12293), (51, 12563), (52, 12572), (53,

12584), (54, 12611), (55, 12662), (57, 12884), (59, 12962), (60, 12983), (61, 13031), (62, 13034), (63, 13070), (64, 13112), (65, 13124), (66, 13139), (67, 13160), (68, 13211), (69, 13283), (70, 13298),

Gene: Piccadilly_17 Start: 9965, Stop: 13312, Start Num: 3

Candidate Starts for Piccadilly_17:

(1, 9905), (Start: 2 @9962 has 5 MA's), (Start: 3 @9965 has 6 MA's), (4, 10031), (5, 10052), (6, 10298), (7, 10364), (8, 10484), (9, 10490), (10, 10568), (12, 10661), (13, 10733), (14, 10757), (15, 10787), (16, 10790), (17, 10856), (18, 10904), (20, 10931), (21, 10952), (22, 10991), (23, 11006), (24, 11090), (25, 11093), (26, 11099), (27, 11141), (28, 11165), (29, 11228), (30, 11306), (31, 11363), (32, 11432), (33, 11510), (34, 11516), (35, 11546), (36, 11564), (37, 11708), (38, 11774), (39, 11789), (40, 11837), (41, 11840), (42, 11909), (43, 11942), (44, 12053), (45, 12065), (46, 12182), (47, 12209), (48, 12230), (49, 12254), (50, 12278), (53, 12569), (54, 12596), (55, 12647), (56, 12701), (57, 12869), (58, 12905), (59, 12947), (60, 12968), (61, 13016), (62, 13019), (63, 13055), (64, 13097), (65, 13109), (66, 13124), (67, 13145), (68, 13196), (69, 13268),

Gene: Schlegelian_17 Start: 9962, Stop: 13312, Start Num: 2

Candidate Starts for Schlegelian_17:

(1, 9905), (Start: 2 @9962 has 5 MA's), (Start: 3 @9965 has 6 MA's), (4, 10031), (5, 10052), (6, 10298), (7, 10364), (8, 10484), (9, 10490), (10, 10568), (12, 10661), (13, 10733), (14, 10757), (15, 10787), (16, 10790), (17, 10856), (18, 10904), (19, 10925), (20, 10931), (21, 10952), (22, 10991), (23, 11006), (24, 11090), (25, 11093), (26, 11099), (27, 11141), (28, 11165), (29, 11228), (30, 11306), (31, 11363), (32, 11432), (33, 11510), (34, 11516), (35, 11546), (36, 11564), (37, 11708), (38, 11774), (39, 11789), (40, 11837), (41, 11840), (42, 11909), (43, 11942), (44, 12053), (45, 12065), (46, 12182), (47, 12209), (48, 12230), (49, 12254), (50, 12278), (51, 12548), (52, 12557), (53, 12569), (54, 12596), (55, 12647), (57, 12869), (59, 12947), (60, 12968), (61, 13016), (62, 13019), (63, 13055), (64, 13097), (65, 13109), (66, 13124), (67, 13145), (68, 13196), (69, 13268), (70, 13283),

Gene: Vondra_17 Start: 9974, Stop: 13324, Start Num: 2

Candidate Starts for Vondra_17:

(1, 9917), (Start: 2 @9974 has 5 MA's), (Start: 3 @9977 has 6 MA's), (4, 10043), (5, 10064), (6, 10310), (7, 10376), (8, 10496), (9, 10502), (10, 10580), (11, 10613), (12, 10673), (14, 10769), (16, 10802), (17, 10868), (18, 10916), (19, 10937), (21, 10964), (22, 11003), (23, 11018), (24, 11102), (25, 11105), (26, 11111), (27, 11153), (28, 11177), (29, 11240), (30, 11318), (31, 11375), (32, 11444), (33, 11522), (34, 11528), (35, 11558), (36, 11576), (37, 11720), (38, 11786), (39, 11801), (40, 11849), (41, 11852), (42, 11921), (43, 11954), (44, 12065), (45, 12077), (46, 12194), (47, 12221), (48, 12242), (49, 12266), (50, 12290), (53, 12581), (54, 12608), (55, 12659), (56, 12713), (57, 12881), (58, 12917), (59, 12959), (60, 12980), (61, 13028), (62, 13031), (63, 13067), (64, 13109), (65, 13121), (66, 13136), (67, 13157), (68, 13208), (69, 13280),